Abstract of the Disclosure

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A variable tuning antenna includes a tuning circuit (1) and a radiation element (2), connected to each other in series. The tuning circuit (1) includes a first inductance element (11) and a parallel circuit (12) to each other in series, and the parallel circuit (12) includes a second inductance element (121) and a variable capacitance element (122) to each other in parallel. And the tuning circuit is set so that the combined reactance of the radiation element and the first inductance element and the combined reactance of the parallel circuit can be canceled by each other, and the parallel circuit does not resonate in receiving frequency band, and moreover, the tuning circuit is formed so as to be tunable in the desired frequency band by varying the capacitance of the variable capacitance. a result, the variable tuning antenna can be obtained which is applicable to, for example, a portable telephone and is tunable in a whole range of a wide range of a low frequency band such as that of a digital TV. And a portable wireless device using the antenna is also obtained.